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JOINT TECHNICAL COORDINATING GROUP/ AIRCRAFT SURVIVABILITY

6
DIRECTORY OF AIRCRAFT SURVIVABILITY
SPECIALISTS AND THEIR AFFILIATIONS,

11 December 1980

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Prepared for

JOINT TECHNICAL COORDINATING GROUP
ON
AIRCRAFT SURVIVABILITY

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FOREWORD

This directory has been prepared by the DCIIS (Design Criteria and Industry Interface Subgroup) of the JTCG/AS. The purpose of the directory is to provide a comprehensive listing of aircraft nonnuclear vulnerability/survivability specialists throughout major aerospace and passive protection manufacturers and Government agencies in CONUS including additional organizations that perform related efforts. It is made up of four sections. Each section is identified by a different color as follows:

1. YELLOW - aircraft, remotely piloted vehicles, power plant, and passive protection manufacturers listed alphabetically, their specialists and current principal manufacturing specialty.
2. BLUE - specialists listed alphabetically within agencies under each of the services - Air Force, Army, Navy and Marine including JTCG/AS Principal Members and Central Office Members and other Government agencies.
3. PINK - software organizations listed alphabetically and personnel contact(s) within each organization.
4. WHITE - index of all personnel listed in previous sections.

Headings of mailing addresses for mailing through official channels to persons at the Government agencies included in this directory are included after the index section. Many times Commander or Director, etc., is used. However, many of the agencies will allow or even specify that "through official channels" mail to their agencies has the mailing address begin with the all CAPS abbreviation of the name of the agency/ the division or office symbol. On the line under that information is written ATTN: Addressee; the addressee being the person for whom the mail is intended.

Revisions or additions to this directory should be submitted to:

Mrs. Connie Padgett (Code 3381)
Member, DCIIS of JTCG/AS
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China Lake, CA 93555

For your convenience, blank forms in the back of the directory are provided for this purpose.

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A

U.S. MANUFACTURERS

AERONUTRONIC FORD CORPORATION
Aeronutronic Division
Ford Road
Newport Beach, CA 92663

CORWIN, Murray H. Program Manager	(714) 759-5576	Sidewinder missile, AIM-9H/9L/9M
SIMONSEN, R. Program Manager	(714) 759-6141	Sidewinder missile, AIM-9J/9P

AEROQUIP CORPORATION
Subsidiary of Libbey-Owens-Ford Co.
300 South East Ave.
Jackson, MI 49203

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STEINERT, E. Robert V.Pres., Engineering	(517) 787-8121 x731	Same as above

AVCO LYCOMING DIVISION
550 South Main St
Stratford, CT 06497

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DI CARLO, Peter Dir. of Product Dev. Assurance	(203) 378-8211	Engine testing

BEECH AIRCRAFT CORPORATION
Wichita, KS 67201

FOLTZ, C. A. Dir, Missile Systems Division	(316) 681-7516	Drones and remotely controlled vehicles
REMBLESKE, C. A. V. Pres., Engineering	(316) 681-7881	Utility. transport A/C

WISE, W. D.
V. P. Commuter Div.

(316) 681-7121 Utility, transport A/C

BELL HELICOPTER - TEXTRON
P.O. Box 482
Ft Worth, TX 76101

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Survivability Gp Leader

(817) 280-2629 Survivability design
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Group Leader

(817) 280-3506 Survivability analysis

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(817) 280-3506 Survivability analysis

BOEING MILITARY AIRCRAFT CO.
Advanced Airplane Branch
P.O. Box 3707
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Surv/Vul Mgr.

(206) 655-4373 Aircraft surv.
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MS-41-10

(206) 655-4332 Aircraft surv.
vulnerability

BOEING WICHITA COMPANY
3801 South Oliver St
Wichita, KS 67210

CORNER, Howard E. (K16-67)
Sr. Specialist Engr.

(316) 687-3536 Fuel system, fire safety
vulnerability analysis

GERHARDT, Richard (K16-14)
Engineering Specialist

316) 687-2105 Weapons/targets

HULLINGER, Keith (K16-14)
Military Operations
Research

(316) 687-2105 Survivability

LEE, Lawrence D. (K-76-04) (316) 687-7531 Military airplane system
Supvr. Flight Safety

PRAEGER, Otto (K76-04) (316) 687-7531 Aircraft system safety
System Safety Engr.

The BOEING COMPANY
Vertol Division, Boeing Center
P.O. Box 16848
Philadelphia, PA 19142

CARAVASOS, Nikolaos (215) 522-3378 Rotary wing aircraft,
Survivability Staff Senior Engineer Survivability

GONSALVES, Joseph E. (215) 522-3378 Rotary wing
Unit Chief Surv. Staff Survivability

HARDING, David G. (215) 522-3400 Rotary wing
Project Engineer Survivability
ACAP Program

The BOEING AEROSPACE COMPANY
Research and Engineering Div
P.O. Box 3999
Seattle, WA 98124

BLAISDELL, Robert G. (206) 773-1399 Laser nuclear
Corporate Design conventional weapon
Std. Management, 8C-53 system hardening

CESSNA AIRCRAFT COMPANY
Wallace Division
P.O. Box 7704
Wichita, KS 67277

HAGGAR, Mike (316) 946-6060 Attack-utility A/C
Military and Contract Programs

CRUCIBLE STAINLESS STEEL DIV.
Colt Industries, Inc.
P.O. Box 226
Midland, PA 15059

FRONKO, R.E. (412) 643-1100 Alloyed and unalloyed
Assistant VP titanium sheet,
Marketing strip and plate

E I DUPONT DE NEMOURS
Central R and D Dept
1420 Bank of Del. Bldg
Wilmington, DE 19898

ANDREEN, Dr. John H. Manager-Military	(302) 999-3400	Non-cellulosic man-made fibers
MILLER, James W. Industrial Fibers Div Nomex Marketing	(302) 999-3017	High temp resistant fibers
YOUNG, Dr. Edmond G. Mgr, Business Div.	(302) 774-5844	Government application of Du Pont products

E-SYSTEMS, INC.
P.O. Box 1056
Greenville, TX 75401

HALL, Claude H. Aeronautical Science Mgr	(214) 454-4977	Command and control modification of 747 aircraft harden against nuclear environment
PHILLIPS, Coleman L. Structural Analysis Supr	(214) 454-5508	Aircraft structural analysis

FAIRCHILD INDUSTRIES, INC.
Fairchild Republic Division
Conklin Ave.
Farmingdale, NY 11735

HINDER, Leonard Aeronautical Engr	(516) 531-3588	Operations research analysis
LA ROCHELLE, Donald Z. Op. Rec. Manager	(516) 531-2615	Operations research

FIBER SCIENCE, INC.
245 E. 157th Street
Gardena, CA 90248

ABILDSKOV, Dale P. Vice President	(213) 327-8820	Design and analysis
--------------------------------------	----------------	---------------------

DUNAHOO, Edmond O.
President

(213) 327-8820

Composite structures
Rotor blades
Drive shafts
Survivable wing tanks

The FIRESTONE TIRE AND RUBBER
Firestone Coated Fabrics Co., Div.
P.O. Box 887
Magnolia, AR 71753

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Plant Manager

(501) 234-3381

Fuel cells

BYERLEY, Donald L.
Development Mgr

(501) 234-3381

Aircraft fuel cells

GENERAL DYNAMICS CORPORATION
Convair Aerospace Division
P.O. Box 80847
San Diego, CA 92138

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Aircraft and missile
survivability

GENERAL DYNAMICS CORPORATION
Fort Worth Division
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Fort Worth, TX 76101

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Opr. Res. Manager

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Group Engineer

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x3730

Systems and
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Engineering Spec.

(817) 732-4811
x5662

Systems and
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(817) 732-4811
x5662

Mission and
requirements analysis

GENERAL MOTORS CORPORATION
Detroit Diesel Allison Div
P.O. Box 894, N24
Indianapolis, IN 46206

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MONSON, Donald S. Project Engineer	(317) 242-4931	Engine survivability
WOOD, Ronald M. Project Engineer Preliminary Design	(317) 242-4081	Engine survivability

GOODYEAR AEROSPACE CORPORATION
Arizona Division
Litchfield Park, AZ 85340

VAN BUSKIRK, William F. Mgr Plastic Marktg	(602) 932-7926	Transparent armor Laser hardening Bird-proof windshield or canopy
---	----------------	--

GOODYEAR AEROSPACE CORPORATION
1210 Massillon Road
Akron, OH 44315

SHUBERT, Thomas L. Dir, Business Planning	(216) 794-2674	A/C tires, wheels and brakes, antibrakes
--	----------------	---

GOODYEAR AEROSPACE CORPORATION
Engineered Fabrics Division
1210 Massillon Rd
Akron, OH 44315

WELLS, James E. Product Manager	(216) 794-7302	Fuel tank fabrics, Self-sealing material
WOLF, Edward General Manager	(216) 794-4126	Fuel tank fabrics

GOODYEAR TIRE AND RUBBER CO
Aircraft Tire Operations
1144 East Market St
Akron, OH 44316

FOGELSANGER, Donald E.
General Manager

(216) 794-7600 Aircraft tires

GRUMMAN AEROSPACE CORPORATION
South Oyster Bay Road
Bethpage, NY 11714

ARCHEY, Jesse P. Jr.
Adv A/C System,
Dept 662

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CONROY, Edward W.
Operations Analysis
Planning Research

(516) 575-3721 Countermeasures/
signatures

HENZE, Henry L.
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(516) 369-7161 Vul/Surv assessment
Fuel sys vul reduction

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C06-25

(516) 575-6876 Power plant fuel systems
and fuel tank, Design
and engineering

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(516) 575-3721 Operations analysis
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(516) 575-3717 Vul/Surv of conceptual
design aircraft

GYRODYNE CO OF AMERICA, INC
St. James, NY 11780

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(516) 584-5400 Helicopters, manned and
remotely piloted

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(516) 584-5400 Same as above

KAMAN AEROSPACE CORPORATION
Subsidiary-Kaman Corporation
Old Windsor Rd
Bloomfield, CT 06002

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Engineering

(203) 242-4461 Rotary wing aircraft
x1481

LOCKHEED CORPORATION
Lockheed-California Company
P.O. Box 551
2555 North Hollywood Way
Burbank, CA 91520

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ADP Adv Design

(213) 847-4550 Experimental aircraft
Advanced design

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Director of
Customer Requirements

(213) 847-2490 Aircraft mission
Design requirements

LOCKHEED MISSILE AND SPACE CO
1111 Lockheed Way
Sunnyvale, CA 94088

PAPAZONI, Albert E.
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(408) 742-9018 Survivability ground air
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LOCKHEED-GEORGIA COMPANY
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Marietta, GA 30063

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Surv. assessment
Tactics and counter-
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Criteria

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Sand Lake Road
Orlando, FL 32855

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MC DONNELL DOUGLAS CORPORATION

Mc Donnell Aircraft Company
P.O. Box 516
St Louis, MO 63166

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HORTON, Richard G. Lead Engineer	(314) 232-3676	Vul/surv analysis Endgame encounter simulation
JENDRAS, Steven J. Staff Engineer	(314) 232-9434	Tactical aircraft weapon applications
LAKE, Edgar R. Staff Engineer	(314) 232-3771	Tactical aircraft design Vulnerability reduction
MEYERS, Michael Tech. Specialist	(314) 232-3676	Vul/surv analysis Hardening/trade studies
WALENDY, John E. Sr. Engr. Technology	(314) 232-4437	Tactical aircraft operations analysis
ZUST, Eric L. Sr Engr Technology	(314) 233-0745	Vul/Surv analysis, Reduction of detection Surv enhancement

NORTHROP CORPORATION
Aircraft Division
3901 W. Broadway
Hawthorne, CA 90250

HEITZ, Dr. Roger M.
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Orgn 3877/62

(213) 970-5054 Ballistic and laser
radiation, Surv/Vul
of aircraft fuel tank

NORTHROP CORPORATION
Ventura Division
1515 Rancho Conejo Blvd
Newbury Park, CA 91320

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(805) 498-3131 Drones and remotely
x1247 piloted vehicles

NORTON COMPANY
Industrial Ceramic Division
One New Bond St
Worcester, MA 01606

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x2752 crew seats

DUMMER, R. Jerry
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(617) 853-1000 Ceramic and ceramic
x3520 composite armors

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Armor and Spectramics

(617) 853-1000 Ceramic and ceramic
x2954 composite armors

REYNOLDS METALS COMPANY
P.O. Box 27003
Richmond, VA 23261

HOLCOMBE, Billy F.
Military Projects Dir

(804) 788-7563 Aluminum armor

ROCKWELL INTERNATIONAL
North American Aircraft Division
P.O. Box 92098
Los Angeles, CA 90009

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S/V Design Req

(213) 647-3393 Nuclear and non-nuclear
design assessment and
testing

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JACKSON, William L. Member Tech Staff	(213) 647-1243	Vul Assessment Subgp Survivability
KUHN, William J. Member Tech Staff	(213) 647-3393	Survivability Non-nuclear response
MELLIN, Stanley C. Member Tech Staff	(213) 647-6216	Structures survivability stress
MOONAN, Raymond L. Systems Specialist	(213) 647-3393	Systems survivability vulnerability requirement
MUSICMAN, Alberto MB-62	(213) 647-6666	Structures

ROCKWELL INTERNATIONAL
Missile Systems Division
P.O. Box 1259
4300 East Fifth Ave
Columbus, OH 43216

ARMBRUST, Wayne T. Member Tech Staff	(614) 239-2500	Warhead lethality Assessment analysis
CRAMER, Donald M. Member Tech Staff	(614) 239-2500	Cruise missile Surv. Assessment
GIRARD, Edward W. Mgr, Oper Analysis	(614) 239-2498	Design-to-cost and life cycle cost analysis
HAVILL, Frank W., Jr. Sr. Requirements Rep. Army Programs	(614) 239-2500	Helicopter surv analysis
MARSHALL, Robert H. Member Tech Staff	(614) 239-2157	Fixed wing air surv analysis
STROHL, Robert J. Member Tech Staff	(614) 239-2157	Surv analyses

RUSSELL PLASTIC TECHNOLOGY
 Subsidiary of Talley Industries
 521 West Hoffman Ave
 Lindenhurst, NY 11757

BJURBACK, Stanley N. Sales Manager	(516) 226-3700	Plastic, Composite matl Ballistic armor
Mc LAUGHLIN, Thomas J. Exec Vice Pres	(516) 226-3700	Same as above
SCHULTZ, Ernest C. Vice President	(516) 226-3700	Same as above
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SIKORSKY AIRCRAFT DIVISION
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STRATOFLEX, INC
 220 Roberts Cut-Off
 Fort Worth, TX 76114

BURNS, H. Ray V.P. Engrg.	(817) 738-6543 x292	Hose fittings and flexible hose assemblies
COOKE, H. M. Chief Engineer R and D	(817) 738-6543 x322	Same as above

JORDAN, T. E. Prod./Whse Mgr.	(817) 738-6543 x229	Same as above
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RUSHING, W. E. Dir Quality Assurance	(817) 738-6543 x341	Same as above
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ANDERSON, Richard L. Sales Mgr, Fuel Cells	(219) 256-8540	Self-sealing fuel cells
GALLOWAY, J. Donald Chief Engineer	(219) 255-2181	Fuel cells Fuel lines
UNITED TECHNOLOGIES CORP Government Products Division P.O. Box 2691 West Palm Beach, FL 33402		
FYFE, James B. Project Engr Tech Mgr S/V	(305) 840-6548	Gas turbine Aircraft engine

VOUGHT CORPORATION
P.O. Box 225907
Dallas, TX 75265

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(214) 266-5959 Design of survivable fuel
systems for military
aircraft

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Sr Specialist-
Ops Research

(214) 266-4408 Weapons Systems
Analysis

WILLIAMS RESEARCH CORP
2280 West Maple Rd
Walled Lake, MI 48088

SCHNYDER, Sidney A.
Supervisor of
Design Assurance

(313) 624-5200 Gas turbine drone
xl619 and lift engines

U.S. GOVERNMENT AGENCIES

Blonde

JOINT TECHNICAL COORDINATING GROUP
ON AIRCRAFT SURVIVABILITY

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PRINCIPAL

ALTERNATE

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AFSC

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MITCHELL, LTCOL John E.
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EGAN, COL William M.
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USMC
INVITED PARTICIPANT

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Fire Power Division
Quantico, VA 22134
AV 278-2006
(703) 640-2006

JTCG/AS CENTRAL OFFICE
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AV 222-1730/2120
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ARMY MATERIEL DEVELOPMENT AND
READINESS COMMAND REPRESENTATIVE

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Executive Director
Dir Countermeasures

U.S. NAVAL MATERIAL
COMMAND REPRESENTATIVE

ALDRIDGE, John
Dir Design Criteria
MIL-Std-2069 Coord.

U.S. AIR FORCE SYSTEMS
COMMAND REPRESENTATIVE

MITCHELL, LTCOL John E.
Director Technology
Research and Dev.

U.S. AIR FORCE LOGISTICS COMMAND

Vacant
Dir. S/V Assessment
And Analysis

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DEPARTMENT OF THE AIR FORCE

Blank

AIR FORCE AEROSPACE MEDICAL
Research Laboratories
Wright-Patterson AFB, OH 45433

DAY, Dr. Carroll N. AFAMRL/HEF	AV 785-4343 (513) 255-4343	Human Factors & C3
DICKSON, CAPT Allan M. AFAMRL/HEF	AV 785-2894 (513) 255-2894	JTCG/AS Countermeasures Suppgp
SUMMERS, Walter C. AFAMRL/HEC	AV 785-3438 (513) 255-3438	Human Factors, POOL & Engagement Analysis
VALENTINO, CAPT George J. AFAMRL/HEF	AV 785-2894 (513) 255-2894	JTCG/AS Surv. Assessment Subgroup Human Factors

AEROSPACE RESCUE AND RECOVERY
Service, Headquarters
Scott AFB, IL 62225

DENNIS, William G. ARRS/DOQR Oper. Reqmts Officer	AV 638-5871 (618) 256-5871	Combat rescue Operational reqmts
---	-------------------------------	-------------------------------------

AIR FORCE ARMAMENT LABORATORY
Eglin AFB, FL 32542

CREWS, George C. AFATL/DLYV	AV 872-4655 (904) 882-4655	Vul Assessment Subgroup
HEARD, James M. AFATL/DLYV	AV 872-4655 (904) 882-4655	Vul Assessment
RUTLAND, J. Andrew AFATL/DLYV	AV 872-8302 (904) 882-8302	Vul Assessment Subgroup

AIR FORCE WRIGHT AERONAUTICAL
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CASCHERA, Joe AFWAL/AAWP-1	AV 785-6131 (513) 255-6131	EW processor systems

DAVIS, Robert L. AFWAL/AAWP-1	AV 785-6131 (513) 255-6131	Elint systems
KRUEGER, Dr. Charles H. AFWAL/AAWD	AV 785-6131 (513) 255-6131	Technical Manager ESM Group
LEAPHART, Eldridge AFWAL/AAWA	AV 785-4511 (513) 255-4511	Countermeasures Subgp Electronic warfare
MENTZER, Dr. Carl A. AFWAL/AAWP-3	AV 785-5076 (513) 255-5076	Radar cross section reduction
PELTON, Dr. Edward AFWAL/AAWP-3	AV 785-5076 (513) 255-5076	Radar cross section Reduction technology
SANDERSON, Dr. Richard B. AFWAL/AAWP-1	AV 785-6131 (513) 255-6131	IR/UV missile warning system
SARVER, Jack W. AFWAL/XRPA	AV 785-4342 (513) 255-4342	Electronic warfare
SIMONS, Robert A. AFWAL/AAWP-3	AV 785-5076 (513) 255-5076	Technical Manager Observables Group
TSUI, Dr. James B. Y. AFWAL/AAWP-1	AV 785-6131 (513) 255-6131	EW receiver systems

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CLODFELTER, Robert G. AFWAL/POSH	AV 785-4208 (513) 255-4208	Technology R and D Subgroup
FREDERICK, Joseph AFWAL/POTA	AV 785-2367 (513) 255-2367	Technology R and D Subgp, IR radiation reduction propulsion
GANDEE, Gregory AFWAL/POSH	AV 785 4208 (513) 255-4208	Vul Assessment Subgroup
HOGAN, Thomas AFWAL/POSH	AV 785-2394 (513) 255-2394	Laser technology Fire protection

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Fire protection

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Vulnerability
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Design Criteria and
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Threat analysis

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Surv. Assess. Subgp

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Vulnerability

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Technology R and D

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Combat data
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Survivability

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Vulnerability

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Weapon cookoff, gun &
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Weapon cookoff, gun &
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BENNETT, Gerald B. ASD/XRM	AV 785-6395 (513) 255-6395	Co-chairman Vulner. Assessment Subgroup Surv Assess Subgp Vul Assess Subgp
BOYD, Lawrence E. ASD/XRX	AV 785-3264 (513) 255-3264	Surv Assessment Subgp
CAMPANILE, Frank ASD/XRM	AV 785-6261 (513) 255-6261	AAA and SAM, Surv Assessment
CHINN, Floyd O. ASD/XROL	AV 785-6396 (513) 255-6396	Surv Assessment, Flightpath generation, Survivability models
CRAMER, Russell ASD/XRM	AV 785-6395 (513) 255-6395	Missile endgame model
DRAKE, Patricia ASD/ENFTV	AV 785-2821 (513) 255-2821	Vul & Ballistic Test
GEBHARD, Charles C. ASD/YPES	AV 785-6605 (513) 255-6605	F-16 SPO Surv
KNEUBUEHL, John F. ASD/ENFTV	AV 785-2821 (513) 255-2821	Design Criteria and Industry Interface Subgroup
LENTZ, Martin ASD/ENFTV	AV 785-2821 (513) 255-2821	Vul Assessment Subgp, JTCG/AS Aerial Target Vul Subgp
MARTH, Peter T. ASD/ENESS	AV 872-6295 (904) 882-6295	AFSC System Surv Design Handbook DH 2-7
MARTIN, Gar L. ASD/	AV 785-2821 (513) 255-2821	Combat damage repair analysis
NYSTROM, MAJ Thomas ASD/YYX	AV 785-6788 (513) 255-6788	Dev planning related to strategic offensive aeronautical weapon sys

REED, Thomas O. ASD/ENFEF	AV 785-5682 (513) 255-5682	Technology R and D Subgp, Fuel systems inerting system
RICHART, David K. ASD/ENFTV	AV 785-2821 (513) 255-2821	Technology R and D Subgroup
TATE, Stanley E. ASD/XRS	AV 785-3164 (513) 255-3164	Countermeasures Subgp
WALLICK, D. Jerry ASD/ENFTV	AV 785-2821 (513) 255-2821	Chairman, JTCG/AS Surv Assessment Sub
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KASPAREK, Paul A. FTD/TQIA	AV 785-4031 (513) 255-4031	Threat definition
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DELUCA, Eugenio DRXMR-ER Materials Engineer	AV 955-3413 (617) 923-3413	Armor materials
FITZPATRICK, Robert DRXMR-RA	AV 955-3213 (617) 923-3213	Vul. to Directed Energy Weapons (VUDEW) COMM
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HYNES, Dr. Thomas V. DRXMR-RA	AV 955-3213 (617) 923-3213	Laser effects on materials, Materials countermeasures (VUDEW)
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MESCALL, John F. DRXMR-TE	AV 955-3442 (617) 923-3442	Penetration mechanics
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PRIFTI, DR Joseph J. DRXMR-ER Materials Engineer	AV 955-3413 (617) 923-3413	Armor materials

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Composites, plastics,
adhesive elastomeric matl

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Camouflage concealment
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Materials

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Vul Reduction

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Countermeasures Subgp

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Vul Assessment Subgp

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Ballistic range testing

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BELY, Dennis C. DRDAR/BLV	AV 283-3086 (278) 278-3086	Rotor blade vul Rotary wing vul
BENTLEY, Bedford T. DRDAR/BLV	AV 283-3086 (278) 278-3086	AC Vul Computer Program
ERLINE, Thomas F. DRDAR/BLV	AV 283-3086 (301) 278-3086	Structural Analysis
GREEN, Charles F. DRDAR/BLV	AV 283-3086 (278) 278-3086	Propulsion
HASKELL, Donald F. DRDAR/BLV	AV 283-4503 (301) 278-4503	Ch, Aerial Targets Branch - Structures
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HOFFMAN, Alvan J. DRDAR-BLV	AV 283-3682 (278) 278-3682	Chief, Vulnerability Lethality Division
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MAYERHOFER, Robert D. DRDAR-BVL	AV 283-3663 (278) 278-3663	JTCG/ME Aerial Target Vulnerability
MCNEILLY, John H. DRDAR-BLV	AV 283-3551 (278) 278-3551	Vul Assess Subgp
MOWRER, Donald W. DRDAR/BLV	AV 283-3086 (278) 278-3086	Chairman, JTCG/AS Vul Assessment Subgp JTCG/ME Aerial Target Vulnerability
NOONAN, William P. DRDAR/BLV	AV 283-3641 (301) 278-3641	Aircraft Test
PEPPER, MAJ James D. DRDAR/BLV	AV 283-3086 (301) 278-3086	Flight Control
POLYAK, Stephen F. DRDAR/BLV	AV 283-3086 (301) 278-3086	Propulsion, Aerodynamics
POOLE, Thomas O. DRDAR/BLV	AV 283-3662 (278) 278-3662	Vul of aircraft Range testing
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RIGOTTI, David L. DRDAR-BLV	AV 283-4431 (278) 278-4431	Laser technology
SCHUMACHER, Robert N. DRDAR-BLV	AV 283-3663 (278) 278-3663	Aerial target vul
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Vulnerability Analysis

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IR radiation simulation
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CROSBY, William G. DRXST-CA-2	AV 274-7475 (804) 296-5171 x475	AA artillery intelligence

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COYLE, Thomas DRXSY-AA	AV 283-4101 (301) 278-4101	Air warfare analysis
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Survivability

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Aircraft and Weapons
Requirements Br Hd

VACANT
OP-526

AV 224-2423
(202) 694-2423

Marine Aviation Div
Joint Matters
Branch Head

CHIEF OF NAVAL OPERATIONS
Office of the
Research, Development,
Test and Evaluation
Washington, DC 20350

BURNS, LTCOL R. M.
OP-982-E42

AV 224-4840
(202) 694-4840

Asst. for closed air
support weapons system

HERBERT, LTCOL Dennis B.
OP-982E3

AV 224-4480
(202) 694-4480

Special mission
aircraft support

CHIEF OF NAVAL OPERATIONS
Systems Analysis Division
Washington, DC 20350

HAERING, George
OP-96C2/962

AV 227-0981
(202) 697-0981

Chairman, JTCG/ME
Air Operations Gp

COMMANDER OPERATIONAL TEST
And Evaluation Force
Norfolk, VA 23511

DEL PRIORE, F. B.
Code 02B

AV 690-5177
(804) 444-5177

S/V Coordinator for
COMOPTEVFOR

DAVID W. TAYLOR
Naval Ship R and D Center
Annapolis Laboratory
Annapolis, MD 21402

DRAY, James F.
Code 2832

AV 281-2755
(301) 367-2755

Lubricants, Friction,

FOERNSLER, Robert O. Code 2843	AV 281-2839 (301) 267-2839	Head, Fire Protection and Survival Branch
KEFFER, William J., Jr. Code 2733	AV 281-2110 (301) 267-2110	Sys and personnel safety
LAROSA, Charles N. Code 2843	AV 281-2542 (301) 267-2542	Hazardous materials research
LUGAR, James R. Code 2843	AV 281-2541 (301) 267-2541	Fire Protection & Damage Control
McQUAID, Dr. Richard W. Code 2832	AV 281-2871 (301) 267-2871	Lubricants and hydraulic fluid research and dev
OLDS, E. Huston Code 2733	AV 281-2111 (301) 267-2111	Surface Ship Surv.; (Prop & Aux. Power System)
RAGOT, Robert L. Sr. Project Engr Code 2701	AV 281-2320 (301) 267-2320	Amphibious assault land- ing craft, Craft systems analysis, Machinery surv.
SCHAB, Henry W. Code 2701	AV 281-2320 (301) 267-2320	Active fire protection systems for advanced ship platforms
STRANDELL, Patricia A. Code 2831	AV 281-2534 (301) 367-2534	Fuels
WEGLEIN, G. C. Code 2733	AV 281-3836 (301) 267-3836	Sys and personnel safety

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Naval Ship R and D Center
Carderock Laboratory
Bethesda, MD 20084

HACKETT, Owen F. Code 1740.2	AV 287-1774 (202) 227-1774	Ships/aircraft hazards and vul analyses
MUELLER, Thomas A. Code 1750.3	AV 287-1781 (202) 227-1781	Ship & Survivability Antisubmarine weapons effectiveness group
SYKES, J. William Code 175	AV 287-1779 (202) 227-1779	Weapons effects and ship protection

NAVAL AIR DEVELOPMENT CENTER
Warminster, PA 18974

ABRAMS, Charles R. Code 6014	AV 441-3290 (215) 441-3290	Flt control sys analysis and prototype model research & development
BELIVEAU, Ronald H. Code 2012	AV 441-2361 (215) 441-2361	Tactical air warfare analysis, Aircraft Survivability Subgp
BRENNAN, Thomas J. Code 1VA	AV 441-3002 (215) 441-3002	Advanced V/STOL
CONTE, Alfeo A. Code 60612	AV 441-2835 (215) 441-2835	Development of superior fire-resistant silicone base hydraulic fluid
DE SIMONE, David N. Code 6002	AV 441-2189 (215) 441-2189	Adv concepts and planning ejection, Escape crash safety, Personnel surv high-g tollerance
DONLEY, Shawn T. Code 60722	AV 441-2508 (215) 441-2508	Flight control electrical hazard protection
FLETCHER, Arthur Code 606A	AV 441-3016 (215) 441-3016	Vul Assess Subgp Laser hardening of aircraft structures
GONZALEZ, Felix Code 2012	AV 441-2361 (215) 441-2361	Elec countermeasures
GREEN, David V. M. Code 201A	AV 441-3218 (215) 441-3218	Vul/surv consultant and evaluation specialist
HALL, Roland S., Jr. Code 2012	AV 441-3218 (215) 441-3218	Air-to-air missile A/C engagement modeling
HEGEDUS, Charles R. Code 60622	AV 441-2055 (215) 441-2055	Countermeasure Coding
HENDLER, Edwin Code 6003	AV 441-2196 (215) 441-2196	Human acceleration tolerances and crew thermal protection
HITCHCOCK, Dr. Lloyd Code 6022	AV 441-2889 (215) 441-2889	Human factors Aircraft integration

HUANG, Dr. Shih L. Code 604	AV 441-3025 (215) 441-3025	Adv A/C Structures Tech Structures R and D Br Head
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LESORAVAGE, Edward C. Code 2012	AV 441-2205 (215) 441-2205	Tactical air warfare analysis
LILLIE, MAJ J.C. Code 097	AV 441-2147 (215) 441-2147	Marine liaison, Aircraft Surv.
MARKUSHEWSKI, Leonid J. Code 6013	AV 441-2476 (215) 441-2476	Aeromechanical Design Branch Head
McQUILLEN, Dr. Edward J. Code 605	AV 441-2567 (215) 441-2567	Superintendent, Aero Analysis Division
MITCHELL, Millard C. Code 2012	AV 441-2361 (215) 441-2361	Vul Assessment Subgp, Surv Assessment Subgp, Damage and combat analyses
NEU, Charles E. Code 60632	AV 441-2808 (215) 441-2808	Improved monolithic and advanced composite structural materials
PULLEY, David F. Code 60622	AV 441-2827 (215) 441-2827	Passive countermeasures; Weapons cook-off improvement
RITTER, Robert A. Code 601A	AV 441-2285 (215) 441-2285	Design Criteria and Industry Interface Subgroup, Technology R and D Subgroup, Flt Cont and Hyd
SANFORD, Russell L. Code 6034	AV 441-3252 (215) 441-3252	Aircraft escape systems
SCHULMAN, Marvin Code 6032	AV 441-2727 (215) 441-2727	Ejection Systems Crash safety
SIMKINS, Albert E. Code 60133	AV 441-2833 (215) 441-2833	Survivable external fuel tanks, Fasteners

TAURAS, David G. Code 2012	AV 441-2361 (215) 441-2361	Countermeasures
TRABOCCO, Ronald E. Code 60631	AV 441-2808 (215) 441-2808	Advanced composite structural materials
VAFAKOS, Basil Code 701	AV 441-3100 (215) 441-3100	Surv Assess Subgp Tactical air warfare
YOUNG, Paul Code 2012	AV 441-2361 (215) 441-2361	Aircraft Survivability

NAVAL AIR ENGINEERING CENTER
Lakehurst, NJ 08733

COX, William J. Technical Director Code 09	AV 624-2335 (201) 323-2335	Ship installations Ground support equipment
FOX, Charles Code 9312	AV 624-2979	DCII Subgp. Arma- ment Specifications; A/C Structures. Aircrew Equipment System Safety

NAVAL AIR PROPULSION CENTER
1440 Parkway Ave
Trenton, NJ 08628

WYSOCKI, Dennis A. Code PE3	AV 443-7388 (609) 882-1414 x388	Design Criteria and Industry Interface Subgroup, Aircraft engine specifications
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NAVAL AIR SYSTEMS COMMAND
Washington, DC 20361

ALDRIDGE, John AIR-5184J	AV 222-1730 (202) 692-1730	JTCG/AS Central Office Dir Design Criteria MIL-STD-2069 coord.
ATKINSON, Dale B. AIR-5184	AV 222-1730 (202) 692-1730	Head, NAVAIR Combat Surv. Branch, JTCG/AS Panel Alternate

BERRY, David C. AIR-526X3	AV 222-3490 (202) 692-3490	Surv Assess Subgp
BROWN, Robert R. AIR-330	AV 222-2518 (202) 692-2518	Propulsion administrator
DEGRAY, Allan D., Jr. AIR-526X1	AV 222-3490 (202) 692-3490	Surv Assess Subgp
ENGLANDER, Sid AIR-54113	AV 222-3892 (202) 692-3892	Sr effectiveness engr
GIBBLE, James W. AIR-09E	AV 222-1234 (202) 692-1234	Safety Directorate
GIGIOLI, George W. AIR-5360D-1	AV 222-6028 (202) 692-6028	Technology R and D Subgroup, Propulsion
HUME, Robert D. AIR-530313	AV 222-3690 (202) 692-3690	Chairman, Technology R and D Subgroup
JOHNSON, Charles D. AIR-53632E	AV 222-2656 (202) 692-2656	Technology R and D Fuel Systems
JONES, CAPT Robert H. AIR-518	AV 222-7694 (202) 692-7694	JTCG/AS Principal Member, Director Product Integrity Div.
LICHTMAN, Eugene A. AIR-330B	AV 222-2520 (202) 222-2520	Advanced air breathing propulsion sys R and D
SCHMITT, Thomas J. AIR-526W	AV 222-3447 (202) 692-3447	Systems analysis
SCHONOWSKI, John J. AIR-53014C1	AV 222-3646 (202) 692-3646	Technology R and D Subgroup
SPARROW, William T., Jr. AIR-03PA3	AV 222-7449 (202) 692-7449	Aircraft Dev. Mgr. (Strike); Advanced A/C Dev. & Systems Objectives Office
THIBAUT, Edgar A. AIR-526W2	AV 222-3449 (202) 692-3449	Advance strike systems operations analysis
WEINSTOCK, Lionel I. AIR-5311D	AV 222-7482 (202) 692-7482	Pilot and aircrew protective clothing

NAVAL MATERIAL COMMAND
Washington, DC 20360

AMLIE, Dr. June T. MAT-08E17	AV 222-9013 (202) 692-9013	NAVMAT Surv/Vul Coordinator
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NUTTING, CAPT Roger M. MAT-08D1	AV 222-9013 (202) 692-9013	Chairman, NMC Combat Surv Committee

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BALL, Prof. Robert E. Code 67BP	AV 878-2885 (408) 646-2885	DCIIS, Newsletter Editor Subgroup Consultant
FUHS, Prof. Allen Code 67FU	AV 878-2586 (408) 646-2586	Laser effects, fatigue
WANG, Prof. Peter C. Code 53WG	AV 878-2622 (408) 646-2622	Stochastic models and technological threat forecasting studies

NAVAL RESEARCH LABORATORY
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Washington, DC 20375

CARHART, Dr. Homer W. Code 6180	AV 297-2262 (202) 767-2262	Combustion and fuels (fire suppression agents)
CUBBAGE, Henry D. Code 7550	AV 297-3469 (202) 767-3469	Tele-communication systems branch consultant
DUNCAN, James R. Code 5314	AV 297-3459 (202) 767-3459	Radar (weapon control)
GOODELL, Wm. V. Code 6552	AV 297-3347 (202) 767-3347	IR Countermeasures Msl Vul., A/C Protection
KRAFFT, Dr. Joseph M. Code 5830	AV 297-2239 (202) 767-2239	Fracture mechanics

MAC CALLUM, Dr. John M. Code 6509	AV 297-3045 (202) 767-3045	Electro-optical technical programs
TOOTHMAN, Harold Code 5309	AV 297-3459 (202) 767-3459	Computer Modeling Infrared & Countermeasures
WENZEL, Dr. Richard F. Code 6335	AV 297-2935 (202) 767-2935	Technology R and D Subgp, Structures and Structural Materials Committee & Directed Energy Wpns.
WOLOCK, Dr. Irving Code 8433	AV 297-2567 (202) 767-2567	Failure of composites Behavior of transparent plastics for canopies
ZWACK, Herbert W. Code 5720	AV 297-3139 (202) 767-3139	Head, EW Support Measures Branch

NAVAL SEA SYSTEMS COMMAND
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BEAUREGARD, Raymond L. Code 64E	AV 222-8699 (202) 692-8699	Explosives research and development (safety)
BIRD, CDR Ronald PMS-405	AV 222-5691 (202) 692-5691	Electro-optical technology and hardware high energy laser
DAUGHERTY, Edward A. SEA-04H3	AV 222-2080 (202) 692-2080	Weapon System Safety Br. Head
POHLER, Carl H. SEA-03RE	AV 227-2201 (202) 692-2211	RDT and E Program Mgr., Ship combat surv, Fire protection and damage control, Personnel protection RDT and E

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Aerial Target
Vulnerability Assess
Impact ballistics

BACKMAN, Marvin E.
Code 3831

AV 437-2207
(714) 939-2207

Impact ballistic
performance

BAILEY, Kenneth W.
Code 3383

AV 437-3327
/3328
(714) 939-3327
/3328

Technology R and D
Chrmn, Structures

BATES, Jack R.
Code 3383

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/3327
(714) 939-3326
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Co-Chairman
Technology R and D
Fuel Systems

BOTT, P.I.
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AV 437-3326
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Engine damage modeling
Engine ballistics

CAPPS, William L.
Code 3381

AV 437-3681
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IR signature evaluation

CLAUNCH, M. Wayne Code 39201	AV 437-3308 (714) 939-3308	Aerial target
COHN, Ronald J. Code 3384	AV 437-6401 (714) 939-6401	Range operations Range scheduling
DE BOLD, Lawrence Code 3384	AV 437-6401 (714) 939-6401	Head, Range Test Facility
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FONTENOT, John S. Code 3383	AV 437-3326 (714) 939-3326	Technology R and D Subgp, Materials, Advanced fiber composit
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GILLISPIE, Carol Code 3381	AV 437-3681 (714) 939-3681	Vulnerability assessment
GRANT, Kenneth W. Code 3386	AV 437-3681 (714) 939-3681	Vul end-game Fuzing analysis
HALL, David H. Code 3382	AV 437-3681 (714) 939-3681	Surv Assessment Subgp Fuzing analysis
HANDLER, Dr. George S. Code 128	AV 437-3312 (714) 939-3312	Electro-optics countermeasures coordinator
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KEITH, Melvin H. Code 39104	AV 437-2449 (714) 939-2449	Surface Aerial target description and vul
MONCSKO, George E. Code 3383	AV 437-3326 (714) 939-3326	Technology R and D Subgp, Fuel Systems
MORROW, John J. Code 3381	AV 437-3681 (714) 939-3681	Co-chairman Surv. Assessment Subgp
OKAMOTO, Harold Y. Code 3381	AV 437-3681 (714) 939-3681	AAA, Air combat methodology

PADGETT, Connie L. Code 3381	AV 437-3681 (714) 939-3681	Design Criteria and Industry Interface Subgroup
SAITZ, Dorothy Code 3381	AV 437-3681 (714) 939-3681	IR signature modeling Vul assessment
SCHIEFER, Gerald R. Code 35	AV 437-3500 (714) 939-3500	High speed arm Department Head, Electronic Warfare
THRONDSO, Lester Code 3383	AV 437-3326 (714) 939-3326	Propulsion & V/STOL
UNDERWOOD, William L. Code 3554	AV 437-3575 (714) 939-3575	Echo range operations, Instrumentation Data System Branch Head
WATKE, Donald Code 3384	AV 437-6401 (714) 939-6401	Instrumentation engr

NAVAL WEAPONS SUPPORT CENTER
Crane, IN 47522

BROWN, James M. Code 502	AV 482-1358 (812) 854-1358	Attrition modeling, Surface-to-air modeling
HITCHCOCK, Lyman C. Code 502	AV 482-1282 (812) 854-1282	ECM modeling, Surface-to-air modeling
KEMP, Jerry L. Code 502	AV 482-1358 (812) 854-1358	IR missile modeling, Decoy flares
LOHKAMP, Carl W. Code 502	AV 482-1358 (812) 854-1358	Night vision aids, Visual detection modeling scenarios
PAPKE, Norman L. Code 502	AV 482-1358 (812) 854-1358	Surface-to-air modeling
SANDERS, Keith Code 504	AV 482-1603 (812) 854-1603	Digital flight path generators

PACIFIC MISSILE TEST CENTER
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ARNOLD, Warren F. Code 1153	AV 351-7565 (805) 982-7565	Electronic warfare, Field and Flt Test Branch Head
BOK, John R. Code 1245	AV 351-7245 (805) 982-7245	Computer analyses of aircraft survivability
BURGE, Albert R. Code 0160	AV 351-8975 (805) 982-8975	Microwave, Electro- optical and IR radiation counter- measures Counter- measures Subgp. Chairman
DIEHL, Robert C. Code 0141	AV 351-8847 (805) 982-8847	Vul. Assessment HEL
GODWIN, C. L. Code 1233	AV 351-8504 (805) 982-8504	Infrared measurements
HERLEIKSON, Arne J. Code 1155	AV 351-8538 (805) 982-8538	Electronic warfare Command Control and Communications Branch Head
KENT, C. A. Code 1233	AV 351-8504 (805) 982-8504	Infrared countermeasures simulation
LAUB, M. E. Code 1233	AV 351-8504 (805) 982-8504	Electro-optical warning receiver analysis
LILLEHAUGEN, L. E. Code 1233	AV 351-8504 (805) 982-8504	Electro-optical counter- measures systems
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McKEEFERY, R. L. Code 1232	AV 351-8504 (805) 982-8504	Stabilized optical systems
MILEY, Frank P. Code 1150	AV 351-7494 (805) 982-7494	Electronic Warfare Officer
NIELSON, Robert L. Code 1151	AV 351-7810 (805) 982-7810	Electronic counter- measures; Development, Systems & Techniques; Test & Evaluation

NOFREY, Bruce E. Code 1245	AV 351-7609 (805) 982-7609	Weapon system analyst- physicist, Computer analysis of surv
PIGNATARO, Augustus Code 1233	AV 351-8504 (805) 982-8504	Physicist, Electro-optics
STEPHENSON, A. N. Code 1232	AV 351-8504 (805) 982-8504	Optical systems
STEVENSON, L. C. Code 1233	AV 351-8504 (805) 982-8504	Electro-optical counter- measures systems
STOWELL, D. T. Code 1233	AV 351-8504 (805) 982-8504	Optical systems E-O measurements
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TOWNSEND, C. A. Code 1232	AV 351-8504 (805) 982-8504	Laser countermeasures systems
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WADSWORTH, J. L. Code 1233	AV 351-8504 (805) 982-8504	Electro-optical warning receivers
WATSON, C. E. Code 1233	AV 351-8736 (805) 982-8736	Laser warning receivers
WILKE, P. H. Code 1232	AV 351-8504 (805) 982-8504	Laser receivers
WILLINGHAM, J. T. Code 1233	AV 351-8504 (805) 982-8504	Electro-optical counter- measures systems

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OTHER GOVERNMENT AGENCIES

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Countermeasures Subgp

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Dev. Division
Asst Div Chief

GARODZ, Leo J.
ACT-100F

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(609) 641-3885

Stability performance
control

HOWELL, Wayne D.
ACT-350

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ACT-330

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Technology R and D
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Houston, TX 77058

DAWN, Dr. Frederic S. Code EC	(713) 483-4931	Non-flammable materials for space suits, support protective clothing, life equipment crew equipment, spacecraft interiors
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NATIONAL BUREAU OF STANDARDS
Building 224
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BENJAMIN, Irwin A. Room B250	(301) 921-3255	Division Chief, Fire Safety Engineering (including aircraft)
DAVIS, Sanford Room A-345	(301) 921-3744	Head, Construction & Materials Research
KRASNY, John F. 753.00, Rm A-345	(301) 921-3116	Product flammability prog (flight crew apparel and furnishings)
PARKER, William J. 753.00, Rm B356	(301) 921-3461	Fire Test Methods Research group

ADDITIONAL ORGANIZATIONS WITH CAPABILITIES
IN AIRCRAFT SURVIVABILITY

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ANALYTIC SERVICES, INC.
400 Army-Navy Drive
Arlington, VA 22202

FOREMAN, Charles W. Mgr, Tactical Div	AV 225-5640 (703) 979-0700	Surv requirements for advanced and current aircraft weapons systems
MOTT, Charles D. Deputy Division Mgr Tactical Division	AV 225-5640 (703) 979-0700	Same as above

ARMAMENT SYSTEMS, INC.
712-F North Valley Stre
Anaheim, CA 92801

GILBERT, Thomas Senior V.P.	(714) 635-1524	Computer software Surv/vul studies Armament preliminaries Design and evaluation Documentation
JOERGER, Jerome C. President	(714) 635-1524	Same as above
MUSCH, John E. Vice President	(714) 635-1524	Same as above

ARNOLD RESEARCH ORGANIZATION
Arnold Engineering Dev Center
Arnold AFS, TN 37389

GILLARD, Thomas J. Br Mgr T-Project	(615) 455-2611 x7135	Aircraft propulsion and rocket systems testing and evaluation
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Battelle, Columbus Laboratories
505 King Ave.
Columbus, OH 43201

BROWN, Dr. J. H., Jr.	(614) 424-6591	Ballistic Armor Protection Systems, Surv./Vul. Analysis
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BOOZ, ALLEN AND HAMILTON, INC
Defense Technology Div.
4330 East West Highway
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Vice President

(301) 951-2604 A/C Vul. Analysis

PRIESTLY, Gilbert
Manager of CDIC

(513) 252-8062 Combat data for aircraft

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Air attack/defense

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x231 systems analysis -
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BUCHANAN, Dr. Robert B.
Group Vice President

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EDNEY, Benny E.
Asst. V. P.

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test facilities

MILENSKI, John W.
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Electro-optical
countermeasures,
Aircraft/missile
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Requirements, Concepts,
Systems, Mission
Analysis

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Aircraft S/V analyses
Combat operations sim-
ulation, electronic
warfare and penetration
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development

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correlation of aircraft
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S/V methodology
development and analysis,
target descriptions

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<u>Name of Center, Activity or Laboratory</u>	<u>Official Title Used in Mailing Address</u>
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Air Force Armament Laboratory	AFATL/Division Symbol Attn: Addressee
Air Force Wright Aeronautical Laboratories	AFWAL/Division Symbol Attn: Addressee
Avionics Laboratory	
Aero Propulsion Laboratory	
Flight Dynamics Laboratory	
Air Force Institute of Technology	AFIT/Division Symbol Attn: Addressee
Air Force Materials Laboratory	AFML/Division Symbol Attn: Addressee
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Air Force Weapons Laboratory	AFWL/Division Symbol Attn: Addressee
Armament Division	AD/Division Symbol Attn: Addressee
Air Force Logistics Command Headquarters	AFLC/Division Symbol Attn: Addressee
Air Force Systems Command Headquarters	Commander, AFSC/Office Symbol Attn: Addressee
Aeronautical Systems Division Headquarters	ASD/Branch Symbol Attn: Addressee
Foreign Technology Division Headquarters	FTD/Branch Symbol Attn: Addressee
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Army Materials & Mechanics Research Center	Director
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Army Materiel Development & Readiness Command Headquarters	Commander
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Naval Research Laboratory	Director
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Naval Surface Weapons Center Dahlgren & White Oak	Commander
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Company Name _____

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Number	City	State	Zip Code
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Specialist Name _____ Specialty _____

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Title _____

Office (or Mail) Code _____ Telephone _____

Area Code	Number	Extension
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Company Name _____

Government Agency _____

Address _____

Number	City	State	Zip Code
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Specialist Name _____ Specialty _____

First	Middle Initial	Last
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Title _____

Office (or Mail) Code _____ Telephone _____

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